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CLAIMS

1. Catalyst that comprises at least one matrix, at least one metal of group VIIB, and an element that is selected from the group that is formed by phosphorus, boron or silicon, and at least one hydro-dehydrogenating metal that is selected from the group formed by the non-noble metals of group VIII, molybdenum and tungsten.

2. Catalyst according to claim 1, such that the element of group VIIB is rhenium or manganese.

3. Catalyst according to ~~one of claims 1 to 4~~, such that the element of group VIIB is rhenium. *CLAIM 1*

4. Catalyst according to ~~one of claims 1 to 4~~, such that the element of group VIII is cobalt or nickel. *CLAIM 1*

5. Catalyst according to ~~one of claims 1 to 4~~, such that the matrix is selected from the group that is formed by alumina, silica, silica-alumina, clay, magnesia, titanium oxide, zirconium oxide, boron oxide, and aluminates. *CLAIM 1*

6. Catalyst according to claim 5, such that said matrix is alumina.

7. Catalyst according to ~~one of claims 1 to 10~~ that comprises at least one element of group VIIA. *CLAIM 1, FURTHER*

8. Catalyst according to claim 11, such that said element of group VIIA is fluorine.

CLAIM 1

9. Catalyst according to ~~one of claims 1 to 8~~ that comprises, in % by weight relative to the total mass of the catalyst:

- 0.01 to 50% of at least one element of group VIIB,
- 0.01 to 99.7% of at least one matrix,
- 0.01 to 50% of at least one hydro-dehydrogenating ^{METAL} element,
- 0.01 to 20% of an element that is selected from P, B or Si,
- 0 to 15% of at least one element of group VIIA.

10. Use of the catalyst according to one of claims 1 to 9 for the transformation of the hydrocarbon-containing feedstocks.

11. Use of ~~the~~ catalyst according to claim 10 for hydrotreatment.

^{A PROCESS ACCORDING TO CLAIM}
12. Use according to ~~one of claims 10 to 11~~ such that the feedstock that is ~~used~~ is selected from the group that is formed by gasolines, gas oils, vacuum gas oils, residues that may or may not be deasphalted, paraffinic oils, waxes and paraffins that contain at least one heteroatom such as sulfur, oxygen or nitrogen and optionally at least one metal.

^{A PROCESS}
13. Use according to claim 11 ~~of the catalyst~~ in hydrotreatment of hydrocarbon-containing feedstocks prior to their treatment by hydrocracking.

^{CLAIM 11}
14. Use according to ~~one of claims 11 to 13~~, in which the catalyst was sulfurized.

ADD A₂ >

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